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Organography

THE LARGE English edition of the second part of GOEBEL'S *Organography of plants* has now appeared.³ The first part has become so indispensable to students of experimental morphology that the translation of the second has been awaited with much interest, and with some impatience as time wore on. As the German edition was reviewed in this journal shortly after its appearance in 1900,⁴ little need now be said about the subject matter. The work, as a whole, is an attempt to present the configuration of plants from the point of view of function and environment. While the first part is primarily a discussion of principles, the second is devoted to a more detailed presentation of the structures and variations of the Bryophyta, Pteridophyta, and Spermatophyta. The wide experience of the author in experimental work, and more especially his great wealth of first-hand observation of plants under most diverse conditions, has enabled him to present a mass of detailed information that is of very great value and suggestiveness.

The translation has been accurately done by Professor BALFOUR. "Spermatophyta" will strike everyone as a novel form, but it has classical usage as justification and its brevity will probably cause it to displace the more familiar Spermatophyta. The translator has taken wise liberties with the typographical form, by making headings and subheadings that present the matter more clearly to the eye. When he alters the order of figures, however, we think he goes a bit too far. Other points of make-up are open to objection. If the translation had been made into two volumes of nearly equal size, by dividing at the section on Pteridophyta and Spermatophyta the work would have been more convenient to handle than in one thin (270 pages) and one thick (708 pages) part. The separate pagination, and calling the volumes "parts," together with the separate numbering of figures seem to us distinct bibliographical mistakes.

The index is very complete and adds greatly to the value of this translation. The index to illustrations should have been made a part of it. Two indexes are never as good as one.—W. B. MCCALLUM.

Mosses and ferns

THE EXHAUSTION of the edition of CAMPBELL'S *Mosses and ferns* and the continuing demand for it have given opportunity for a thorough revision,⁵ made necessary by the researches of the last decade. With the experience gained from a first edition, the author who undertakes a second, unhampered by "plates,"

³ GOEBEL, K., *Organography of plants*, especially of the Archegoniatae and Spermatophyta. Authorized English edition by ISAAC BAYLEY BALFOUR. Part II. Special Organography. Imp. 8vo. pp. xxiv + 708. *figs.* 417. Oxford: Clarendon Press. 1905. \$7.00.

⁴ BOTANICAL GAZETTE 31:204. 1901.

⁵ CAMPBELL, D. H., *The structure and development of mosses and ferns* (Archegoniatae). 8vo. pp. vii + 657. *figs.* 322. New York: The Macmillan Co. 1905. \$4.50.